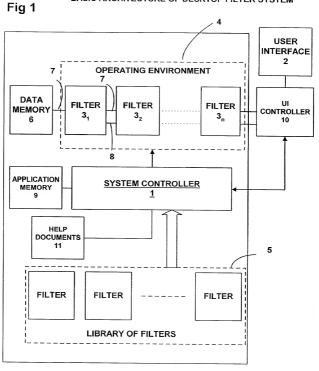
BASIC ARCHITECTURE OF DESKTOP FILTER SYSTEM



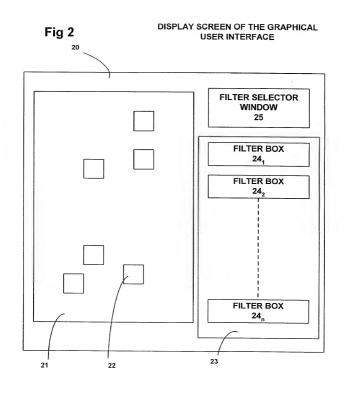
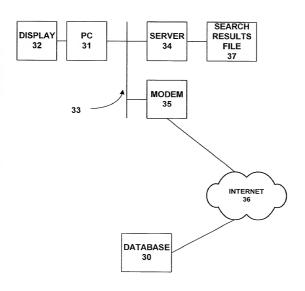


Fig 3

DATABASE SEARCH VIA THE INTERNET



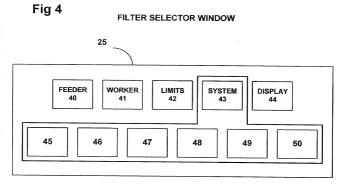
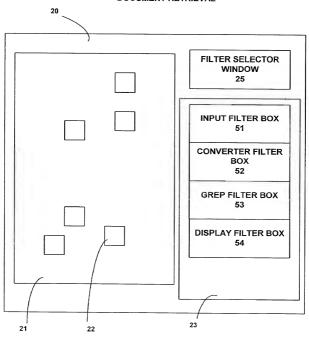
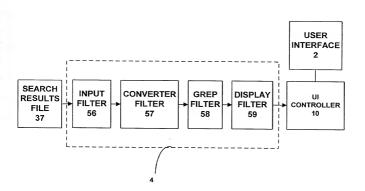


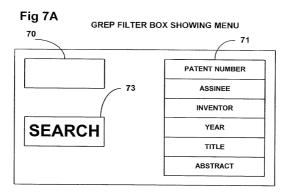
Fig 5

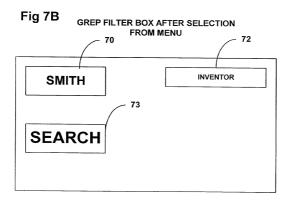
# GRAPHICAL USER INTERFACE USED IN THE EXAMPLE OF PATENT DOCUMENT RETRIEVAL

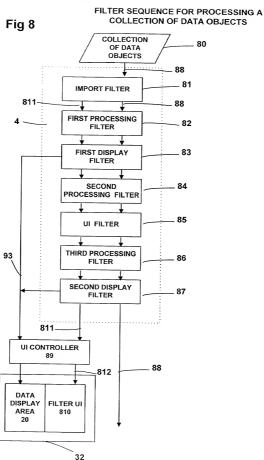


### FILTER SEQUENCE FOR DATABASE SEARCH RESULTS









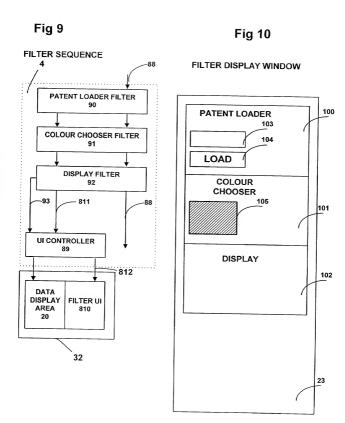
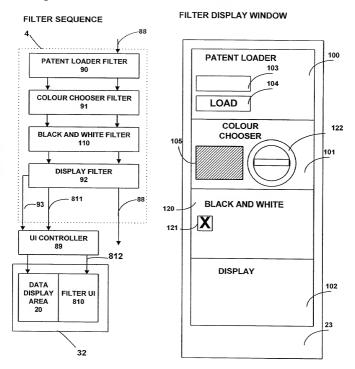


Fig 11

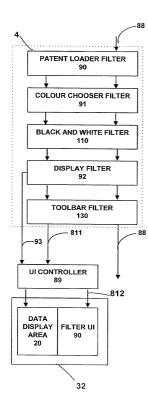
Fig 12



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FILTER DISPLAY WINDOW WITH TOOLBAR FILTER BOX

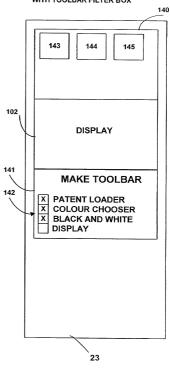


Fig 15
FILTER DISPLAY WINDOW WITH TOOLBAR FILTER BOX HIDDEN

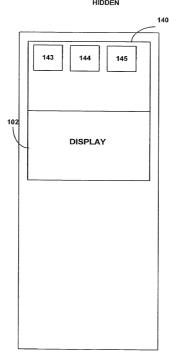


Fig 16

#### FILTER SEQUENCE WITH ADD -DATA-CONTROLS FILTER

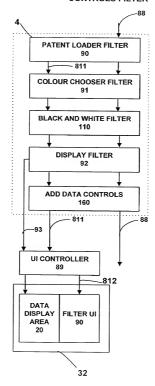


Fig 17 GUI FOR FILTER SEQUENCE INCLUDING ADD-DATA-CONTROLS FILTER

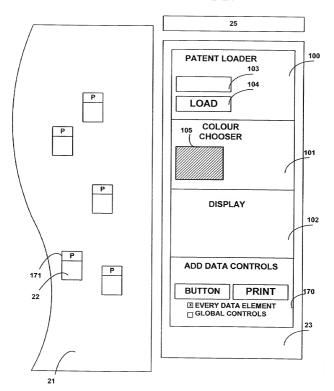


Fig 18

### APPLICATION DOWNLOADED TO PORTABLE COMPUTER DEVICE

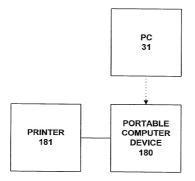


Fig 19 FILTER SEQUENCE FOR A PRINTER CONTROL APPLICATION

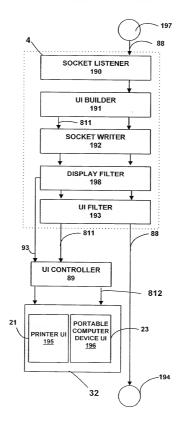
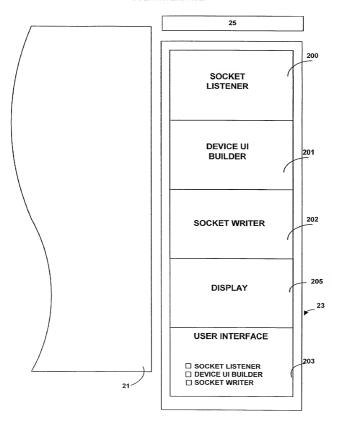


Fig 20 DEVELOPING AN APPLICATION FOR A PRINTER USER INTERFACE



# Fig 21 PRINTER USER INTERFACE FOR BLACK AND WHITE PRINTER

PRINTER INFO:	
STATUS: IDLE TYPE: LASER PRINTER LOCATION: FIRST FLOOR	2
DOCUMENT:	
PAGES: TO	
COPIES:	
JOB INFO:	
SORT:	
CLIP:	
LAYOUT: PORTRAIT	
PAPER: A4	
PRINT	

Fig 22 PRINTER USER INTERFACE FOR COLOUR PRINTER

PRINTER INFO:	
STATUS: BUSY TYPE: COLOUR LASER LOCATION: FIRST FLOOR	2
DOCUMENT:	
PAGES: TO	
COPIES:	
JOB INFO:	
SORT:	
CLIP:	
LAYOUT: PORTRAIT	
PAPER: A4	
COLOUR: PROFILE: ICC PRINT TRUE BLACK:	

Fig 23 USER INTERFACE FOR FACSIMILE MACHINE

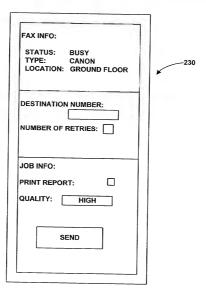


Fig 24

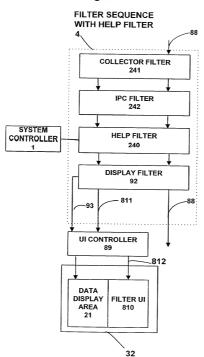


Fig 25
FILTER DISPLAY WINDOW WITH HELP FILTER BOX

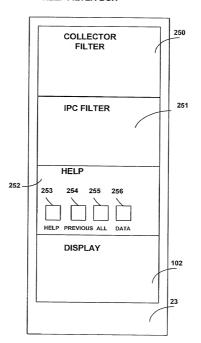
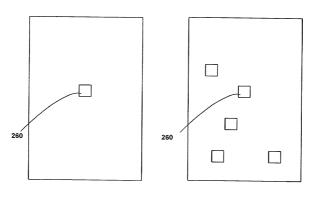


Fig 26

Fig 28

DATA DISPLAY WHEN 'HELP' BUTTON OR 'PREVIOUS' BUTTON SELECTED

DATA DISPLAY WHEN 'ALL' BUTTON SELECTED



#### The IPC Filter

#### Purpose

To pass through only those patent objects that have an IPC class conforming to the boolean expression input

#### Applicability

Use on patent objects containing IPC metadata.

#### Output

The patent objects satisfying the IPC expression.

#### Details

The filter loads in a dataset containing the IPC hierarchy. Currently this is a complete list and is rather large - we may limit it in the future. A data structure is built that allows us to identify subclasses for any particular class.

A user can enter a simple boolean expression to query on. For example he can ask for "G06K+AND NOT G06K 011/00" which means that he wants any patents that are in class G06K and any of its subclasses except for any patents that are in G06K 011/00 and any of those subclasses.

Other boolean operators available are: AND, OR, AND NOT, OR NOT.

The use of "\*" allows the user to match on any string.

#### Example

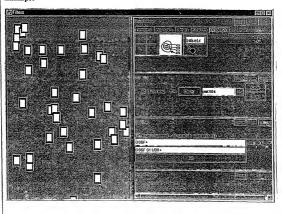


Fig 29

# FILTER SEQUENCE INCLUDING ADAPTIVE HELP FILTER

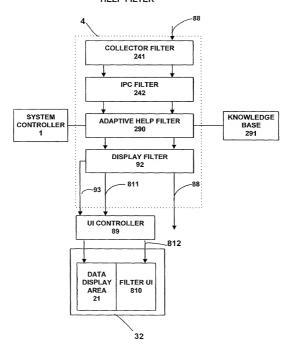


Fig 30

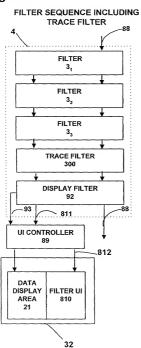


Fig 31

DATA DISPLAY OUTPUT OF TRACE
FILTER

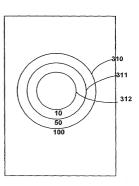
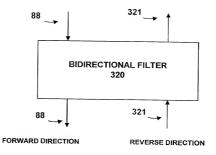


Fig 32 BIDIRECTIONAL FILTERS



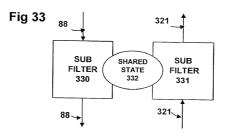


Fig 34

WORD PROCESSING APPLICATION FORMED FROM FILTER SEQUENCE INCLUDING BIDIRECTIONAL FILTERS

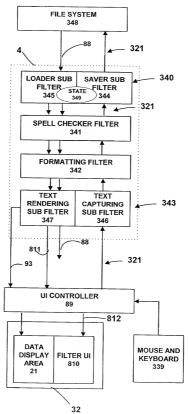


Fig 35

GUI FOR A WORD PROCESSING APPLICATION FORMED FROM FILTER SEQUENCE INCLUDING BIDIRECTIONAL FILTERS

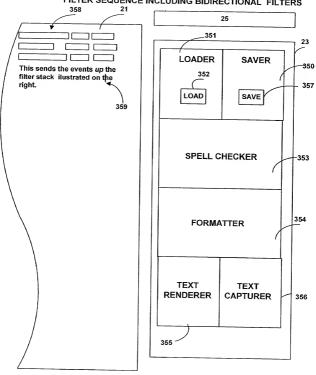


Fig 36

## DIAGRAM EDITING APPLICATION FORMED FROM FILTER SEQUENCE INCLUDING BIDIRECTIONAL FILTERS

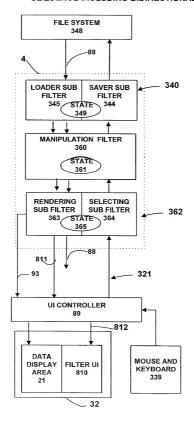
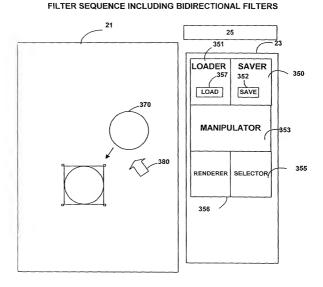


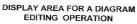
Fig 37

GUI FOR A DIAGRAM EDITING APPLICATION FORMED FROM



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Fig 38A



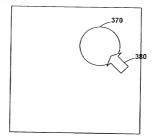


Fig 38B

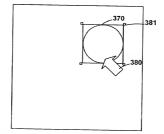


Fig 38C

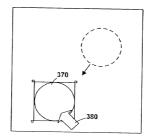


Fig 39

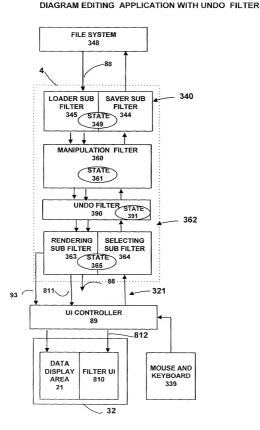


Fig 40

GUI FOR A DIAGRAM EDITING APPLICATION WITH UNDO FILTER

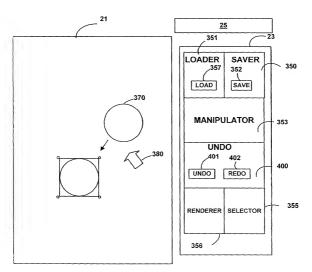


Fig 41

### OVERALL VIEW OF SYSTEM

